

**WSCF**  
**ANALYTICAL LABORATORY REPORT**  
**ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT**

for

**Bechtel Hanford Inc**  
**Richland , WA 99352**

**Attention: SJ TRENT/D AYERS**

**Survey ID B00-027-03**

**Data Validator**

*Sharon D Bellin*  
(Approved Signatory)

**RECEIVED**  
APR 11 2000  
**EDMC**

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WSCF0088-WSCF

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Group#: 20000253  
Report Date 1-mar-2000  
bulk/rev.2

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Waste Management Federal Services Hanford, Inc.  
MSIN: S3-28  
Richland, WA 99352 Phone 373-7167



# WSCF

## ANALYTICAL LABORATORY REPORT

### ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT

Your samples have been analyzed for fiber content using polarized light microscopy and dispersion staining in accordance with Industrial Hygiene Laboratory Procedure LA-519-403, based on 40 CFR Part 763, Subpart E, App. E and EPA method EPA/600/R-93/116. The results are attached.

This method provides a visual estimate of the percentage of each fiber type present. It is a semiquantitative method intended to identify materials containing  $>$  or  $=$  1% asbestos fibers.\* Reported fiber percentages for samples and sample layers are based on the samples as received by the laboratory. The laboratory cannot verify that these values are representative of the original material sampled.

The Waste Sampling and Characterization Facility, is accredited by the National Institute of Standards and Technology (NIST), National Voluntary Laboratory Accreditation Program (NVLAP), to analyze bulk samples for asbestos content. This accreditation does not constitute approval or endorsement of analytical results by NIST nor does it apply to other analyses performed by this laboratory.

If there are questions concerning this report, please contact the approved signatory listed on the cover page of this report.

\* Because of the nonhomogeneous nature of soils, results will be reported using the following terms rather than percentages:

1. None - No asbestos fibers found.
2. Trace detectable - With extensive searching, a few fibers of the type indicated were found; concentration very low, well below 1%.
3. Obvious presence - Fibers easily found but overall concentration still low.
4. Significant presence - Fibers readily found; overall concentration may approach or exceed 1% level.

Polarized light microscopy (PLM) may not be the preferred method for identification of asbestos in floor tile. Most vinyl floor tiles marketed in the late sixties to mid-seventies contained asbestos milled so fine as to be below detection limits for PLM techniques. Tiles of that vintage, showing any detectable asbestos fibers should be considered to be asbestos-containing material. Non-detection of asbestos by PLM should not be considered conclusive proof that the tiles do not contain asbestos. Follow-up analysis by other techniques may be required.



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## ANALYTICAL LABORATORY REPORT

Attention: SJ TRENT/D AYERS

Group #: 20000253

Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
W00I000293	BOXKX0	The following are the results of this test- Bulk Asbestos Layer 1							
		Synthetic		5-15	%	mkh	02/10/00	02/14/00	02/15/00
	SAMPLE COMMENT---	100% homogeneous dirty white rubber sheets. Sample is							
	SAMPLE COMMENT---	reportedly from 105F/105DR ISS Project.							

MDL=Minimum Detection Limit

RQ=Result Qualifier

B - The analyte was detected in the associated method blank.

J - Estimated value.

N - Identification is based on a mass spectral library search.

U - The analyte was analyzed for but not detected.

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## ANALYTICAL COMMENT REPORT

Attention: SJ TRENT/D AYERS

Group #: 20000253

Sample #	Client ID	Lab Area	Test	Comment
W001000293	BOXKX0	VALGROUP		Validated 3/1/00 by SD Bolling, IH Technical Manager.
		LOGSAMP		REC'D BY K BEEBE AND LOGGED BY MK GRANT 2/14/00.
		TESTDATA	Bulk Asbestos Layer 1	100% homogeneous dirty white rubber sheets. Sample is reportedly from 105F/105DR ISS Project.

Lab Areas: VALGROUP - Group Validation  
LOGSAMP - Login for Sample

VALTEST - Test Validation  
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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<b>Bechtel Hanford Inc.</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>				<b>B00-027-03</b>		Page <u>1</u> of <u>1</u>	
Collector <b>LIPPY</b>		Company Contact J Adler		Telephone No. 373-4316		Project Coordinator TRENT, SJ <b>H903</b>		Price Code <b>9L</b>	
Project Designation 105F & 105DR ISS Project - Other Solid		Sampling Location 105F		SAF No. B00-027		Air Quality <input type="checkbox"/>		Data Turnaround <b>7 Days</b>	
Ice Chest No. <b>ERC-99-035</b>		Field Logbook No. EL 1424		COA R105F5280C		Method of Shipment Hand Delivered			
Shipped To Waste Sampling & Characterization		Offsite Property No. <b>NA</b>				Bill of Lading/Air Bill No. <b>NA</b>			
<b>POSSIBLE SAMPLE HAZARDS/REMARKS</b>				Preservation		None			
				Type of Container		Poly Bag			
				No. of Container(s)		1			
				Volume		10g			
<b>Special Handling and/or Storage</b>				Asbestos					
<b>SAMPLE ANALYSIS</b>									
Gp 20000253									
Sample No.		Matrix *		Sample Date		Sample Time			
BOXKX0 W001000293		Other Solid		2-10-00		1300		X	
<del>BOXKX1</del>		<del>Other Solid</del>		<del>2-10-00</del>					
<b>CHAIN OF POSSESSION</b>				<b>Sign/Print Names</b>		<b>SPECIAL INSTRUCTIONS</b>			
Relinquished By		Date/Time		Received By		Date/Time		<b>DB0017/112672</b>  Matrix * S=Soil SE=Sediment SO=Solid S=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Time WI=Wipe L=Liquid V=Vegetation X=Other	
Mack Lippy		2/14/00 1000		R. Farrell		2/14/00			
Relinquished By		Date/Time		Received By		Date/Time			
R. Farrell		2-14-00		R. Farrell		2-14-00			
Relinquished By		Date/Time		Received By		Date/Time			
[Signature]		1400		MK Grant		2-14-00			
Relinquished By		Date/Time		Received By		Date/Time			
NA				MK Hamilton		2/5/00			
Relinquished By		Date/Time		Received By		Date/Time			
Relinquished By		Date/Time		Received By		Date/Time			
<b>LABORATORY SECTION</b>		Received By		Title		Date/Time			
<b>FINAL SAMPLE DISPOSITION</b>		Disposal Method		<b>REMAINING SAMPLE STORED AT WSCF ASBESTOS LAB FOR AT LEAST 3 MONTHS, THEN DISCARDED AS ASBESTOS WASTE</b>				Date/Time	